Intl. Appl. No.: PCT/FR03/01985 Atty. Dkt. No.: 5013-08200

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the above-captioned application.

Listing of Claims:

1.	(currently amended) An instrumented antifriction bearing device comprising:
	a rotating portion;
******	a nonrotating portion;, and
	an assembly configured to for detecting rotation parameters, wherein the assembly comprises: comprising
	an encoder (8); and
	a sensor-(7), wherein the sensor is integrated integral with said the nonrotating portion, and wherein the sensor comprises: provided with
	a sensor unit; and (10), characterized in that the sensor comprises
	at least one microcoil (20), wherein a microcoil is a with substantially flat winding, and wherein the

Intl. Appl. No.: PCT/FR03/01985

Atty. Dkt. No.: 5013-08200

microcoil is positioned placed on a support (17) of a circuit (18) that is mounted coupled to in the sensor unit (10) of the nonrotating portion, and wherein such that said the microcoil comes is configured to be positioned axially opposite the encoder (8).

- 2. (currently amended) The device as claimed inof claim 1, characterized in that it comprises further comprising a plurality of substantially radial coplanar reception microcoils.
- 3. (currently amended) The device as claimed in of claim 1, characterized in that it comprises further comprising a plurality of reception microcoils placed positioned on a plurality of substantially parallel radial planes.
- 4. (currently amended) The device as claimed in any one of the preceding claims of claim 1, characterized in that it comprises further comprising a transmission coil (19) placed positioned in the sensor unit.

5.	(currently amended) The device as claimed in any one of the preceding claims of claim 1, characterized in that further comprising:
	at least one transmission coil;
	at least one reception coil; and
	a data processing circuit; (18) are placed on the support.

Intl. Appl. No.: PCT/FR03/01985 Atty. Dkt. No.: 5013-08200

wherein a transmission coil, a reception coil, and a data processing circuit are positioned on the support.

- 6. (currently amended) The device as claimed in any one of the preceding claims of claim 1, characterized in that it comprises further comprising a plurality of microcoils linked together in pairs, (24, 25) and wherein the linking microcoils are configured in order to generate a differential signal.
- 7. (currently amended) The device as claimed in any one of the preceding claims of claim 1, eharacterized in that wherein the encoder comprises an encoder wheel, and wherein the encoder wheel comprises an whose active zone, and wherein the active zone comprises is made of an electrically conducting metal.
- 8. (currently amended) The device as claimed in any one of the preceding claims of claim 1, eharacterized in that wherein the encoder comprises an encoder wheel, and wherein the encoder wheel comprises with windows, or with teeth attached to a rotating race (3) of the antifriction bearing.
- 9. (currently amended) The device as claimed in any one of claims 1 to 7 of claim 1, eharacterized in that wherein the encoder comprises a printed circuit, and wherein the printed circuit comprises whose an annular substrate is provided with metallized sectors and nonmetallized sectors.
- 10. (currently amended) The device as claimed inof claim 9, characterized in that wherein the printed circuit is mounted coupled to on-a rotating racetrack of the antifriction bearing.

Intl. Appl. No.: PCT/FR03/01985

Atty. Dkt. No.: 5013-08200

11.	(currently amended) The device as claimed in any one of the preceding claims of claim 1,
	characterized in that wherein at least one portion of the encoder is placed positioned in
	the space situated-between the antifriction bearing racetracks.

- 12. (currently amended) The device as claimed in any one of the preceding claims of claim 1, characterized in that wherein the encoder is placed positioned outside the space situated between the antifriction bearing racetracks.
- 13. (currently amended) The device as claimed in any one of the preceding claims of claim 1, characterized wherein in that the sensor unit is substantially annular.
- 14. (currently amended) The device as claimed in any one of claims 1 to 12of claim 1, characterized in that wherein the sensor unit occupies an angular sector of less than approximately 360°.

15.	(currently amended) An electric motor comprising:
	a rotor;
	a stator;
	at least one antifriction bearing, (1) wherein an antifriction bearing is configured to supporting the rotor; and
*******	a sensor assembly comprising:
	an encoder (8) ; and

Inventor: Gallion et al. Intl. Appl. No.: PCT/FR03/01985

Atty. Dkt. No.: 5013-08200

a sensor (7), characterized in that wherein the sensor (7) comprises:

at least one microcoil, (20) wherein a microcoil comprises an with essentially flat winding, and wherein a microcoil is positioned placed on a support (17) of a circuit (18) mounted coupled to in the sensor unit (10) integral integrated with the stator such that the microcoil comes is positionable axially opposite the encoder.

16. (new) The device of claim 1, wherein the encoder comprises an encoder wheel, and wherein the encoder wheel comprises teeth coupled to a rotating groove of the antifriction bearing.